

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 30, 2004 (use as many sheets as necessary)		Application Number	10/674,065
		Filing Date	09/30/2003
		First Named Inventor	A. Robin Poole
		Group Art Unit	1642
		Examiner Name	Unknown
Sheet 1 of 4	Attorney Docket Number	079328-0105	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
<i>AK</i>	A1		WO 94/14070	A1	Shriners' Hospital for Crippled Children	06/23/1994		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
<i>AK</i>	A2	Akizuki, S. et al., J. Orthop. Res. 4:379-92 (1986)	
	A3	B. Henderson, J.C.W. Edwards, and E.R. Pettipher (ed.): Mechanisms and Models in Rheumatoid Arthritis, pp. 163-204, London, Academic Press, 1995	
	A4	Billinghurst, R.C. et al. J. Clin. Invest 99(7):1534-1545 (1997)	
	A5	Borden, P. et al., J. Biol. Chem. 271:23577-81 (1996);	
	A6	Chomczynski, P. et al., Anal. Biochem. 162:156-9 (1987)	
	A7	Dahlberg, L. et al., Arthritis Rheum. 43(3):673-82 (2000)	

Examiner Signature	<i>Jose Esteban</i>	Date Considered	12/3/05
--------------------	---------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 30, 2004 (use as many sheets as necessary)		Application Number	10/674,065
		Filing Date	09/30/2003
		First Named Inventor	A. Robin Poole
		Group Art Unit	1642
		Examiner Name	Unknown
Sheet	2	of	4
		Attorney Docket Number	079328-0105

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
UR	A8	Dodge, G.R. and Poole, A.R., <i>J. Clin. Invest.</i> 83(2):647-61 (1989)	
	A9	Eyre, D.R. <i>et al.</i> , <i>J. Rheumatol. Suppl.</i> 27:49-51 (1991)	
	A10	Freemont, A.J. <i>et al.</i> , <i>Ann. Rheum. Dis.</i> 56:542-9 (1997)	
	A11	Goldring, M.B. <i>Arthritis Rheum.</i> 43:1916-1926 (2000)	
	A12	Guilak F. <i>et al.</i> , <i>J. Orthop. Res.</i> 12(4):474-84 (1994)	
	A13	Hollander, A.P. <i>et al.</i> , <i>J. Clin. Invest.</i> 96:2859-69 (1995)	
	A14	Hollander, A.P. <i>et al.</i> , <i>J. Clin. Invest.</i> 93:1722-32 (1994)	
	A15	Jennings, L. <i>et al.</i> , <i>Connect. Tissue Res.</i> 42(1):71-86 (2001)	
	A16	Kammermann, J.R. <i>et al.</i> , <i>Osteoarthritis Cartilage</i> 4:23-34 (1996);	
	A17	Kempson, G.E. <i>et al.</i> , <i>Biochim. Biophys. Acta.</i> 297:456-72 (1973)	

Examiner Signature	Hope Robinson	Date Considered	12/3/05
--------------------	---------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 30, 2004 (use as many sheets as necessary)		Application Number	10/674,065
		Filing Date	09/30/2003
		First Named Inventor	A. Robin Poole
		Group Art Unit	1642
		Examiner Name	Unknown
Sheet	3	of	4
		Attorney Docket Number	079328-0105

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
APR	A18	Knowlton, R.G. <i>et al.</i> , <i>New Engl. J. Med.</i> 322(8):526-30 (1990)	
	A19	Koopman WJ, (ed): <i>Arthritis and Allied Conditions: A Textbook of Rheumatology</i> , 14 th Edition, pp. 187-208, Lippincott, Williams & Wilkins, Philadelphia, 2001	
	A20	MacNaul, N.K. <i>et al.</i> , <i>J. Biol. Chem.</i> 265:17238-17245 (1990)	
	A21	Mayne R. <i>et al.</i> , <i>J. Biol. Chem.</i> 276(15):12212-12221 (2001)	
	A22	Mitchell, P.G. <i>et al.</i> , <i>J. Clin. Invest.</i> 97:761-768 (1996)	
	A23	Nelson, F. <i>et al.</i> <i>J. Clin. Invest.</i> 102:2115-25 (1998)	
	A24	Poole, A.R. <i>et al.</i> , <i>Acta Orthop. Scand. Suppl.</i> 266:88-91 (1995)	
	A25	Poole, A.R. <i>et al.</i> , <i>Clin. Orthop.</i> 391:S26-33 (2001)	
	A26	R.W. Moskowitz <i>et al.</i> (ed): <i>Osteoarthritis: Diagnosis and Medical Surgical Management</i> , 3 rd Edition, pp. 29-47	

Examiner Signature	<i>A. Robin Poole</i>	Date Considered	12/3/05
--------------------	-----------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.


¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.


⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 30, 2004 (use as many sheets as necessary)		Application Number	10/674,065
		Filing Date	09/30/2003
		First Named Inventor	A. Robin Poole
		Group Art Unit	1642
		Examiner Name	Unknown
Sheet	4	of	4
		Attorney Docket Number	079328-0105

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A27	Reboul, P. et al., <i>Arthritis Rheum.</i> 44:73-84 (2001)	
	A28	Ritvaniemi, P. et al., <i>Arthritis Rheum.</i> 38(7):999-1004 (1995)	
	A29	Royce, P.M., Steinmann, B. (ed): <i>Connective Tissue and its Heritable Disorders. Molecular, Genetic and Medical Aspects</i> , pp. 103-147, New York, Wiley-Liss, 1993	
	A30	Setton, L.A. et al., <i>J. Orthop. Res.</i> 4:451-63 (1994)	
	A31	Shlopov, B.V. et al., <i>Arthritis Rheum.</i> 40:2065-74 (1997)	
	A32	Shlopov, B.V. et al., <i>Arthritis Rheum.</i> 43:195-205 (2000)	
	A33	<i>Sustained and Controlled Release Drug Delivery Systems</i> , J.R. Robinson, ed., Marcel Dekker, Inc., New York, 1978.	
	A34	W.J. Koopman (ed.): <i>Arthritis and Allied Conditions: A Textbook of Rheumatology</i> , 14 th Ed., Vol. 1., pp. 226-284	
	A35	Wu, W. et al., <i>Arthritis Rheumatism</i> , 46:2087-2094 (2002)	

Examiner Signature		Date Considered	12/3/05
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.